

CRF Errors Corrected by the STIC System Branch

#8 OIPE

Serial Number: 09/974,573

CRF Processing Date: 9/26/02 2590
 Edited by: DC
 Verified by: DC (STIC staff) 29/12

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: **ENTERED**
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Inserted a "hard return" between 41517 and 41607.

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95



OIFE

RAW SEQUENCE LISTING

DATE: 09/26/2002

PATENT APPLICATION: US/09/974,573

TIME: 14:21:22

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\09262002\I974573.raw

3 <110> APPLICANT: Williams, Roger
 4 Ried, Christian
 5 Walker, Edward H
 6 Stephens, Len
 8 <120> TITLE OF INVENTION: PHOSPHOINOSITIDE 3-KINASES
 10 <130> FILE REFERENCE: ONYX1048-US
 12 <140> CURRENT APPLICATION NUMBER: US 09/974,573
 C--> 14 <141> CURRENT FILING DATE: 2000-10-23
 16 <150> PRIOR APPLICATION NUMBER: US 60/242,801
 18 <151> PRIOR FILING DATE: 2000-10-23
 20 <160> NUMBER OF SEQ ID NOS: 1
 22 <170> SOFTWARE: PatentIn version 3.1
 24 <210> SEQ ID NO: 1
 26 <211> LENGTH: 1102
 28 <212> TYPE: PRT
 30 <213> ORGANISM: Porcine PI3K
 32 <400> SEQUENCE: 1
 34 Met Glu Leu Glu Asn Tyr Glu Gln Pro Val Val Leu Arg Glu Asp Asn
 35 1 5 10 15
 38 Arg Arg Arg Arg Arg Arg Met Lys Pro Arg Ser Thr Ala Ala Ser Leu
 39 20 25 30
 42 Ser Ser Met Glu Leu Ile Pro Ile Glu Phe Val Leu Pro Thr Ser Gln
 43 35 40 45
 46 Arg Asn Thr Lys Thr Pro Glu Thr Ala Leu Leu His Val Ala Gly His
 47 50 55 60
 50 Gly Asn Val Glu Gln Met Lys Ala Gln Val Trp Leu Arg Ala Leu Glu
 51 65 70 75 80
 54 Thr Ser Val Ser Ala Asp Phe Tyr His Arg Leu Gly Pro Asp His Phe
 55 85 90 95
 58 Leu Leu Leu Tyr Gln Lys Lys Gly Gln Trp Tyr Glu Ile Tyr Asp Lys
 59 100 105 110
 62 Tyr Gln Val Val Gln Thr Leu Asp Cys Leu Arg Tyr Trp Lys Val Leu
 63 115 120 125
 66 His Arg Ser Pro Gly Gln Ile His Val Val Gln Arg His Ala Pro Ser
 67 130 135 140
 70 Glu Glu Thr Leu Ala Phe Gln Arg Gln Leu Asn Ala Leu Ile Gly Tyr
 71 145 150 155 160
 74 Asp Val Thr Asp Val Ser Asn Val His Asp Asp Glu Leu Glu Phe Thr
 75 165 170 175
 78 Arg Arg Arg Leu Val Thr Pro Arg Met Ala Glu Val Ala Gly Arg Asp
 79 180 185 190
 82 Pro Lys Leu Tyr Ala Met His Pro Trp Val Thr Ser Lys Pro Leu Pro
 83 195 200 205

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86 Glu Tyr Leu Leu Lys Lys Ile Thr Asn Asn Cys Val Phe Ile Val Ile
87      210                      215                      220
90 His Arg Ser Thr Thr Ser Gln Thr Ile Lys Val Ser Ala Asp Asp Thr
91 225                      230                      235                      240
94 Pro Gly Thr Ile Leu Gln Ser Phe Phe Thr Lys Met Ala Lys Lys Lys
95      245                      250                      255
98 Ser Leu Met Asp Ile Pro Glu Ser Gln Asn Glu Arg Asp Phe Val Leu
99      260                      265                      270
102 Arg Val Cys Gly Arg Asp Glu Tyr Leu Val Gly Glu Thr Pro Ile Lys
103      275                      280                      285
106 Asn Phe Gln Trp Val Arg Gln Cys Leu Lys Asn Gly Glu Glu Ile His
107      290                      295                      300
110 Leu Val Leu Asp Thr Pro Pro Asp Pro Ala Leu Asp Glu Val Arg Lys
111 305                      310                      315                      320
114 Glu Glu Trp Pro Leu Val Asp Asp Cys Thr Gly Val Thr Gly Tyr His
115      325                      330                      335
118 Glu Gln Leu Thr Ile His Gly Lys Asp His Glu Ser Val Phe Thr Val
119      340                      345                      350
122 Ser Leu Trp Asp Cys Asp Arg Lys Phe Arg Val Lys Ile Arg Gly Ile
123      355                      360                      365
126 Asp Ile Pro Val Leu Pro Arg Thr Ala Asp Leu Thr Val Phe Val Glu
127      370                      375                      380
130 Ala Asn Ile Gln Tyr Gly Gln Gln Val Leu Cys Gln Arg Arg Thr Ser
131 385                      390                      395                      400
134 Pro Lys Pro Phe Thr Glu Glu Val Leu Trp Asn Val Trp Leu Glu Phe
135      405                      410                      415
138 Ser Ile Lys Ile Lys Asp Leu Pro Lys Gly Ala Leu Leu Asn Leu Gln
139      420                      425                      430
142 Ile Tyr Cys Gly Lys Ala Pro Ala Leu Ser Gly Lys Thr Ser Ala Glu
143      435                      440                      445
146 Met Pro Ser Pro Glu Ser Lys Gly Lys Ala Gln Leu Leu Tyr Tyr Val
147      450                      455                      460
150 Asn Leu Leu Leu Ile Asp His Arg Phe Leu Leu Arg His Gly Glu Tyr
151 465                      470                      475                      480
154 Val Leu His Met Trp Gln Leu Ser Gly Lys Gly Glu Asp Gln Gly Ser
155      485                      490                      495
158 Phe Asn Ala Asp Lys Leu Thr Ser Ala Thr Asn Pro Asp Lys Glu Asn
159      500                      505                      510
162 Ser Met Ser Ile Ser Ile Leu Leu Asp Asn Tyr Cys His Pro Ile Ala
163      515                      520                      525
166 Leu Pro Lys His Arg Pro Thr Pro Asp Pro Glu Gly Asp Arg Val Arg
167      530                      535                      540
170 Ala Glu Met Pro Asn Gln Leu Arg Lys Gln Leu Glu Ala Ile Ile Ala
171 545                      550                      555                      560
174 Thr Asp Pro Leu Asn Pro Leu Thr Ala Glu Asp Lys Glu Leu Leu Trp
175      565                      570                      575
178 His Phe Arg Tyr Glu Ser Leu Lys Asp Pro Lys Ala Tyr Pro Lys Leu
179      580                      585                      590
182 Phe Ser Ser Val Lys Trp Gly Gln Gln Glu Ile Val Ala Lys Thr Tyr

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183          595          600          605
186 Gln Leu Leu Ala Lys Arg Glu Val Trp Asp Gln Ser Ala Leu Asp Val
187          610          615          620
190 Gly Leu Thr Met Gln Leu Leu Asp Cys Asn Phe Ser Asp Glu Asn Val
191 625          630          635          640
194 Arg Ala Ile Ala Val Gln Lys Leu Glu Ser Leu Glu Asp Asp Asp Val
195          645          650          655
198 Leu His Tyr Leu Leu Gln Leu Val Gln Ala Val Lys Phe Glu Pro Tyr
199          660          665          670
202 His Asp Ser Ala Leu Ala Arg Phe Leu Leu Lys Arg Gly Leu Arg Asn
203          675          680          685
206 Lys Arg Ile Gly His Phe Leu Phe Trp Phe Leu Arg Ser Glu Ile Ala
207          690          695          700
210 Gln Ser Arg His Tyr Gln Gln Arg Phe Ala Val Ile Leu Glu Ala Tyr
211 705          710          715          720
214 Leu Arg Gly Cys Gly Thr Ala Met Leu His Asp Phe Thr Gln Gln Val
215          725          730          735
218 Gln Val Ile Asp Met Leu Gln Lys Val Thr Ile Asp Ile Lys Ser Leu
219          740          745          750
222 Ser Ala Glu Lys Tyr Asp Val Ser Ser Gln Val Ile Ser Gln Leu Lys
223          755          760          765
226 Gln Lys Leu Glu Asn Leu Gln Asn Leu Asn Leu Pro Gln Ser Phe Arg
227          770          775          780
230 Val Pro Tyr Asp Pro Gly Leu Lys Ala Gly Ala Leu Val Ile Glu Lys
231 785          790          795          800
234 Cys Lys Val Met Ala Ser Lys Lys Lys Pro Leu Trp Leu Glu Phe Lys
235          805          810          815
238 Cys Ala Asp Pro Thr Ala Leu Ser Asn Glu Thr Ile Gly Ile Ile Phe
239          820          825          830
242 Lys His Gly Asp Asp Leu Arg Gln Asp Met Leu Ile Leu Gln Ile Leu
243          835          840          845
246 Arg Ile Met Glu Ser Ile Trp Glu Thr Glu Ser Leu Asp Leu Cys Leu
247          850          855          860
250 Leu Pro Tyr Gly Cys Ile Ser Thr Gly Asp Lys Ile Gly Met Ile Glu
251 865          870          875          880
254 Ile Val Lys Asp Ala Thr Thr Ile Ala Lys Ile Gln Gln Ser Thr Val
255          885          890          895
258 Gly Asn Thr Gly Ala Phe Lys Asp Glu Val Leu Ser His Trp Leu Lys
259          900          905          910
262 Glu Lys Cys Pro Ile Glu Glu Lys Phe Gln Ala Ala Val Glu Arg Phe
263          915          920          925
266 Val Tyr Ser Cys Ala Gly Tyr Cys Val Ala Thr Phe Val Leu Gly Ile
267          930          935          940
270 Gly Asp Arg His Asn Asp Asn Ile Met Ile Ser Glu Thr Gly Asn Leu
271 945          950          955          960
274 Phe His Ile Asp Phe Gly His Ile Leu Gly Asn Tyr Lys Ser Phe Leu
275          965          970          975
278 Gly Ile Asn Lys Glu Arg Val Pro Phe Val Leu Thr Pro Asp Phe Leu
279          980          985          990

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```

282 Phe Val Met Gly Thr Ser Gly Lys  Lys Thr Ser Leu His  Phe Gln Lys
283      995      1000      1005
286 Phe Gln  Asp Val Cys Val Lys  Ala Tyr Leu Ala Leu  Arg His His
287      1010      1015      1020
290 Thr Asn  Leu Leu Ile Ile Leu  Phe Ser Met Met Leu  Met Thr Gly
291      1025      1030      1035
294 Met Pro  Gln Leu Thr Ser Lys  Glu Asp Ile Glu Tyr  Ile Arg Asp
295      1040      1045      1050
298 Ala Leu  Thr Val Gly Lys Ser  Glu Glu Asp Ala Lys  Lys Tyr Phe
299      1055      1060      1065
302 Leu Asp  Gln Ile Glu Val Cys  Arg Asp Lys Gly Trp  Thr Val Gln
303      1070      1075      1080
306 Phe Asn  Trp Phe Leu His Leu  Val Leu Gly Ile Lys  Gln Gly Glu
307      1085      1090      1095
310 Lys His  Ser Ala
311      1100

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VERIFICATION SUMMARY

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date